

UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Marketing Service  
Fruit and Vegetable Programs  
Processed Products Branch

FILE CODE  
105-A-2  
August 2006

Supersedes File Code 105-A-2 Dated July 2006
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SUBJECT: **List of U.S. Standards and Grading Manuals for Processed Fruits and Vegetables and Related Products**

TO: All Inspectors

The United States standards for grades in the following list are issued under authority of the Agricultural Marketing Act of 1946 by the U.S. Department of Agriculture (USDA). The Act provides for the issuance of official U.S. grades to designate different levels of quality.

The U.S. grade standards for processed fruits and vegetables and related products are designed to assist in the marketing of such commodities by providing a convenient basis for sales, for establishing quality control programs, and for determining loan values. They also serve as a basis for the official grading of these commodities by USDA Agricultural Commodity Graders and are for the voluntary use by producers, buyers, and consumers.

The U.S. grade standards, grading manuals, and instructional materials are available on the Internet at <http://www.ams.usda.gov/fv/ppb.html>. Grading manuals and instructional materials provide detailed interpretations of the U.S. grade standards. Single copies may be obtained at no charge unless a price is listed. **Photo-copying is permissible.** Multiple copies are available at a charge of \$0.20 per page. Copies are available from:

Chief, Processed Products Branch  
USDA, AMS, FV Programs  
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Distribution:A  
Agriculture:Washington

**UNITED STATES STANDARDS AND GRADING MANUALS FOR  
PROCESSED FRUITS, VEGETABLES, AND CERTAIN OTHER PRODUCTS**

**CANNED**

<b>U.S. STANDARDS</b>	<b>EFFECTIVE DATE</b>	<b>GRADING MANUAL</b>	<b>EFFECTIVE DATE OF MANUAL</b>	<b>COST OF MANUAL</b>
1. Apples	10/17/53	<a href="#">Yes</a>	01/77	---
2. Apple Butter	08/05/57	<a href="#">Yes</a>	01/77	---
3. Apple Juice	03/11/82	<a href="#">Yes</a>	03/82	---
4. Applesauce	03/11/82	<a href="#">Yes</a>	10/05	---
5. Apricots, Regular and Solid Pack	05/12/76	No	---	---
6. Asparagus	06/20/73	<a href="#">Yes</a>	03/70	---
7. Beans: Dried, Baked, Pork and	09/01/76	No	---	---
8. Beans, Green and Wax	02/16/93	<a href="#">Yes</a>	06/93	---
9. Beans, Lima	03/20/60	No	---	---
10. Beets	08/03/98	No	---	---
11. Blackberries and Other Similar Berries	05/12/76	<a href="#">Yes</a>	06/77	---
12. Blueberries	05/12/76	No	---	---
13. Carrots	08/03/98	No	---	---
14. Celery	02/09/82	<a href="#">Yes</a>	02/82	---
15. Cherries, Red Tart-Pitted	05/12/76	<a href="#">Yes</a>	06/77	---
16. Cherries, Sweet	05/12/76	No	---	---
17. Chili Sauce	10/20/53	<a href="#">Yes</a>	10/54	---

**CANNED**

<b>U.S. STANDARDS</b>	<b>EFFECTIVE DATE</b>	<b>GRADING MANUAL</b>	<b>EFFECTIVE DATE OF MANUAL</b>	<b>COST OF MANUAL</b>
18. Corn, Cream Style	07/01/57	<a href="#">Yes</a>	06/78	---
19. Corn, Whole Kernel	12/08/99	<a href="#">Yes</a>	06/01	---
20. Cranberry Sauce	03/19/51	No	---	---
21. Figs, Kadota	05/12/76	No	---	---
22. Fruit Cocktail	4/21/06	<a href="#">Yes</a>	01/77	---
23. Fruits for Salad	4/21/06	No	---	---
24. Fruit Jelly	09/03/79	<a href="#">Yes</a>	05/80	---
25. Fruit Preserves (Jams)	01/04/80	<a href="#">Yes</a>	05/80	---
26. Grapefruit	10/25/73	Yes (Citrus)	09/98	140.00 <u>1/</u>
27. Grapefruit Juice (all) including: Grapefruit Juice from Conc., and Conc. Grapefruit Juice for Mfg.	09/12/83	Yes (Citrus)	09/98	140.00 <u>1/</u>
28. Grapefruit and Orange for Salad	01/11/84	Yes (Citrus)	09/98	140.00 <u>1/</u>
29. Grapefruit Juice and Orange Juice (Blend)	11/01/72	Yes (Citrus)	09/98	140.00 <u>1/</u>
30. Grape Juice	05/14/51	No	---	---
31. Grapes	05/12/76	No	---	---
32. Hominy	03/10/58	No	---	---
33. Leafy Greens	09/01/73	No	---	---
34. Lemon Juice	12/08/62	No	---	---
35. Lemon Juice for Mfg., Conc.	08/01/59	No	---	---
36. Mushrooms	04/07/62	<a href="#">Yes</a>	08/72	---

1/ Available from PPB, Winter Haven, FL (863) 294-7416. All Citrus products are included in one manual.

**CANNED**

<b>U.S. STANDARDS</b>	<b>EFFECTIVE DATE</b>	<b>GRADING MANUAL</b>	<b>EFFECTIVE DATE OF MANUAL</b>	<b>COST OF MANUAL</b>
37. Okra	07/08/57	No		---
38. Okra and Tomatoes	12/24/57	No	---	---
39. Olives, Green	09/08/67	No	---	---
40. Olives, Ripe	09/13/83	Yes	10/84	\$74.00 <u>1/</u>
41. Onions	11/02/57	Yes	02/59	---
42. Orange Juice (all) including: Orange Juice from Concentrate, Pasteurized Orange Juice, Concentrated Orange Juice, and Concentrated Orange Juice for Manufacturing.	01/10/83	Yes (Citrus)	09/98	\$140.00 <u>2/</u>
43. Orange Marmalade	12/31/74	No	---	---
44. Peaches, Clingstone	07/01/85	<a href="#">Yes</a>	11/98	---
45. Peaches, Freestone	06/22/79	<a href="#">Yes</a>	07/79	---
46. Pears	11/29/04	No	---	---
47. Peas	11/17/94	<a href="#">Yes</a>	4/95	---
48. Peas and Carrots	07/20/70	No	---	---
49. Peas, Field and Black-eyed	07/01/57	<a href="#">Yes</a>	05/77	---
50. Pickles	04/22/91	No	---	---
51. Pimientos	10/23/67	<a href="#">Yes</a>	07/73	---
52. Pineapple	03/01/90	No	---	---
53. Pineapple Juice and Pineapple Juice from Conc.	04/01/87	<a href="#">Yes</a>	02/87	---

1/ Available from PPB, Western Regional Office, Fresno, CA (559) 487-5891

2/ Available from PPB, Winter Haven, FL (863) 294-7416. All Citrus products are included in one manual.

### CANNED

U.S. STANDARDS	EFFECTIVE DATE	GRADING MANUAL	EFFECTIVE DATE OF MANUAL	COST OF MANUAL
54. Plums	01/10/77	<a href="#">Yes</a>	06/77	---
55. Potatoes, White	08/03/98	No	---	---
56. Prunes, Canned Dried	05/12/76	No	---	---
57. Pumpkin (Squash)	07/01/57	<a href="#">Yes</a>	08/56	---
58. Raspberries	05/12/76	No	---	---
59. Sauerkraut	05/13/63	<a href="#">Yes</a>	06/57	---
60. Spinach	05/08/71	No	---	---
61. Squash (Summer Type)	05/25/59	No	---	---
62. Succotash	05/24/67	No	---	---
63. Sweet Potatoes	08/23/06	<a href="#">Yes</a>	05/85	---
64. Tangerine Juice	07/01/69	Yes	09/98	\$140.00 <u>1/</u>
65. Tangerine Juice for Mfg., conc.	10/31/55	Yes	09/98	\$140.00 <u>1/</u>
66. Tomatoes	04/13/90	<a href="#">Yes</a>	04/90	---
67. Tomato Catsup	02/26/92	<a href="#">Yes</a>	02/92	---
68. Tomato Juice and Tomato Juice from Conc.	07/22/85	<a href="#">Yes</a>	04/86	---
69. Tomato Juice, Conc.	02/25/70	No	---	---
70. Tomato Paste	09/19/77	No	---	---
71. Tomato Puree (pulp)	05/01/78	No	---	---
72. Tomato Sauce	11/17/94	<a href="#">Yes</a>	11/94	---

1/ Available from PPB, Winter Haven, FL (863) 294-7416. All Citrus products are included in one manual.

### DRIED & DEHYDRATED

U.S. STANDARDS	EFFECTIVE DATE	GRADING MANUAL	EFFECTIVE DATE OF MANUAL	COST OF MANUAL
73. Apples, Dehydrated	07/31/77	No	---	---
74. Apples, Dried	10/24/55	No	---	---
75. Apricots, Dehydrated	06/30/74	No	---	---
76. Apricots, Dried	05/24/67	No	---	---
77. Dates	08/26/55	<a href="#">Yes</a>	06/77	---
78. Figs, Dried	12/21/01	No	---	---
79. Grapefruit Juice, Dehydrated	09/12/83	Yes	09/98	\$140.00 <u>2/</u>
80. Orange Juice, Dehydrated	01/10/83	Yes	09/98	\$140.00 <u>2/</u>
81. Peaches, Dehydrated	06/30/74	No	---	---
82. Peaches, Dried	05/24/67	No	---	---
83. Pears, Dried	05/24/67	No	---	---
84. Prunes, Dehydrated	06/13/60	No	---	---
85. Prunes, Dried	10/11/65	No	---	---
86. Raisins, Processed	12/01/78	Yes	10/91	\$88.00 <u>1/</u>

1/ Available from PPB, Field Office, Fresno, CA (559) 487-5210.

2/ Available from PPB, Winter Haven, FL (863) 294-7416. All Citrus products are included in one manual.

**FROZEN**

<b>U.S. STANDARDS</b>	<b>EFFECTIVE DATE</b>	<b>GRADING MANUAL</b>	<b>EFFECTIVE DATE OF MANUAL</b>	<b>COST OF MANUAL</b>
87. Apple Juice, Conc.	05/15/75	No	---	---
88. Apples	05/17/54	<a href="#">Yes</a>	01/77	---
89. Apricots	06/21/63	No	---	---
90. Asparagus	06/30/74	<a href="#">Yes</a>	06/70	---
91. Beans, Green and Wax	08/19/96	<a href="#">Yes</a>	10/96	---
92. Beans, Lima	05/22/57	<a href="#">Yes</a>	03/77	---
93. Beans, Speckled and Butter (Lima)	07/21/62	No	---	---
94. Berries (Black, Boysen, etc.)	05/24/67	No	---	---
95. Blueberries	05/22/57	No	---	---
96. Broccoli	01/22/80	<a href="#">Yes</a>	07/80	---
97. Brussels Sprouts	03/30/81	<a href="#">Yes</a>	02/81	---
98. Carrots	02/28/74	No	---	---
99. Cauliflower	09/26/96	<a href="#">Yes</a>	09/96	---
100. Celery	01/24/04	No	---	---
101. Cherries, Red Tart Pitted	06/28/74	<a href="#">Yes</a>	06/77	---
102. Cherries, Sweet	03/01/58	No	---	---
103. Corn, Whole Kernel	08/01/52	No	---	---
104. Corn-on-the-Cob	07/27/70	No	---	---
105. Cranberries	09/22/71	No	---	---
106. Grape Juice, Conc., Sweetened	11/01/57	No	---	---

# **FROZEN**

<b>U.S. STANDARDS</b>	<b>EFFECTIVE DATE</b>	<b>GRADING MANUAL</b>	<b>EFFECTIVE DATE OF MANUAL</b>	<b>COST OF MANUAL</b>
107. Grapefruit	02/20/48	Yes	09/98	\$140.00 <u>1/</u>
108. Grapefruit Juice (all)	09/12/83	Yes	09/98	\$140.00 <u>1/</u>
109. Grapefruit Juice and Orange Juice Conc., Blend	09/21/68	Yes	09/98	\$140.00 <u>1/</u>
110. Greens, Leafy (includes Spinach)	01/29/87	<a href="#">Yes</a>	02/87	---
111. Lemonade, Conc.	09/21/68	Yes	09/98	\$140.00 <u>1/</u>
112. Limeade, Conc.	09/21/68	Yes	09/98	\$140.00 <u>1/</u>
113. Melon Balls	06/25/62	No	---	---
114. Okra	10/15/96	<a href="#">Yes</a>	01/96	---
115. Onion Rings, Breaded	10/17/59	No	---	---
116. Orange Juice (all) including: Orange Juice from Conc., Pasteurized Orange Juice, Conc. Orange Juice, Conc. Orange Juice for Mfg., Conc. Orange Juice, Reduced Acid	01/10/83	Yes	09/98	\$140.00 <u>1/</u>
117. Peaches	07/03/61	No	---	---
118. Peas	05/28/59	<a href="#">Yes</a>	11/64	---
119. Peas and Carrots	03/20/55	No	---	---
120. Peas, Field and Black-eyed	12/13/01	<a href="#">Yes</a>	10/96	---
121. Peppers, Sweet	03/13/59	<a href="#">Yes</a>	11/56	---
122. Pineapple Juice and Pineapple Juice from Conc.	See Canned	---	---	---

1/ Available from PPB, Winter Haven, FL (863) 294-7416. All Citrus products are included in one manual.



**FROZEN**

<b>U.S. STANDARDS</b>	<b>EFFECTIVE DATE</b>	<b>GRADING MANUAL</b>	<b>EFFECTIVE DATE OF MANUAL</b>	<b>COST OF MANUAL</b>
123. Pineapple	01/25/49	No	---	---
124. Plums	03/06/56	Yes	11/57	---
125. Potatoes, French Fried	02/08/67	<a href="#">Yes</a>	01/69	---
126. Potatoes, Hash Brown	11/15/76	No	---	---
127. Raspberries	07/01/57	No	---	---
128. Rhubarb	08/15/45	No	---	---
129. Squash (Cooked)	10/05/53	No	---	---
130. Squash (Summer)	04/03/53	<a href="#">Yes</a>	06/78	---
131. Strawberries	02/01/58	<a href="#">Yes</a>	05/92	---
132. Succotash	03/06/59	No	---	---
133. Sweet Potatoes	09/04/62	No	---	---
134. Tomato Juice and Tomato Juice from Conc.	07/22/85	<a href="#">Yes</a>	04/86	---
135. Turnip Greens with Turnips	08/19/58	<a href="#">Yes</a>	02/59	---
136. Vegetables, Mixed	05/24/54	<a href="#">Yes</a>	02/53	---

### MISCELLANEOUS PRODUCTS

U.S. STANDARDS	EFFECTIVE DATE	GRADING MANUAL	EFFECTIVE DATE OF MANUAL	COST OF MANUAL
137. Cherries, Sulfured	06/12/51	No	---	---
138. Olive Oil	03/22/48	No	---	---
139. Peanut Butter	02/05/72	<a href="#">Yes</a>	07/83	---
140. Potatoes, Peeled	08/11/86	No	---	---
141. Sauerkraut, Bulk	05/24/67	No	---	---

### SUGAR PRODUCTS

U.S. STANDARDS	EFFECTIVE DATE	GRADING MANUAL	EFFECTIVE DATE OF MANUAL	COST OF MANUAL
142. Honey, Comb	05/24/67	<a href="#">Yes</a>	10/67	---
143. Honey, Extracted	05/23/85	<a href="#">Yes</a>	10/85	---
144. Maple Sirup	01/14/80	No	---	---
145. Molasses, Sugarcane	11/16/59	No	---	---
146. Sirup, Refiners'	06/15/67	No	---	---
147. Sirup, Sugarcane	04/16/57	<a href="#">Yes</a>	08/57	---

The following instructional material is available from the Processed Products Branch.

<b>INSTRUCTIONAL MATERIAL</b>	<b>FILE CODE</b>	<b>ISSUE DATE</b>
<a href="#"><u>Determination of Fruit-Sugar Ratio</u></a>	135-A-1	04/60
<a href="#"><u>Brix Measurements</u></a>	135-A-3	04/40
<a href="#"><u>Foreign Material (Canned and Frozen Berries)</u></a>	135-A-5	05/73
Foreign Material (Tomato Products)	135-A-6	07/82
<a href="#"><u>Mold Count</u></a>	135-A-8	05/78
<a href="#"><u>Enzyme Inactivation Test</u></a>	135-A-12	11/75
<a href="#"><u>Determination of Salt Content</u></a>	135-A-19	12/63
<a href="#"><u>Sucrose Conversion Tables</u></a>	135-A-50	1970
<a href="#"><u>Foreign Material (General)</u></a>	172-A-1	08/96
<a href="#"><u>Plant Sanitation</u></a>	159-A-1	07/95
Cumulative Sum Sampling Plan (CUSUM) (Attributes Standards ONLY)	120-A-6	08/78
Lot Sampling Plan (Attributes)	120-A-7	11/78

File Code 105-A-2  
August 2006

AMS:FV:PPB:CLSHORTER:720-4890:8/10/2006  
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